F – freckles is dominant

(ff) – no freckles is recessive

Mom has freckles and dad is a carrier. They have three children, 2 girls and 1 boy. The one daughter doesn’t have freckles, while the other daughter and son do.

Curly hair is dominant (C)

Straight hair is recessive (cc)

Dad is a carrier of curly hair and mom has straight hair (generation 1). They have two children, both girls (generation 2). One daughter has curly hair and marries a man who is a carrier. They have a daughter with straight hair (generation 3). The other daughter has straight hair and marries a man who also had straight hair (generation 2).

Detached earlobes are dominant (D)

Attached earlobes are recessive (dd)

A father carries the recessive gene for attached earlobes and a mother does not (generation 1). They have two children, a daughter and son (generation 2). The daughter does not have attached earlobes and marries a man who does not carry the gene for attached earlobes. They have one child, a girl who is a carrier (generation 3). The son marries a woman with attached earlobes and they have two boys (generation 3), both who have attached earlobes.

Brown hair is dominant (B)

Blonde hair is recessive (bb)

A mother and father have brown hair (generation 1). They have 5 children, two boys and three girls. All of the girls are blonde, and the two boys have brown hair (generation 2). One of the daughters is married to a carrier who has their own son with blonde hair (generation 3). One of the sons is married to a blonde, and they have a daughter with brown hair (generation 3). Another son is married to a brown-haired woman, and they have two blonde boys (generation 3).